

SEQUENCE LISTING

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Horvath, Curt M
Darnell Jr., James E

<120> METHODS FOR IDENTIFYING MODULATORS OF TRANSCRIPTIONAL ACTIVATOR PROTEIN INTERACTIONS

<130> 600-1-253

<140> 09/387,418
<141> 1999-08-31

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<170> PatentIn Ver. 2.0

<210> 1
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<212> DNA
<213> Mus musculus

<220>
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<400> 1
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<210> 2
<211> 39
<212> DNA
<213> Mus musculus

<220>
<223> Description of Artificial Sequence: Primer

<400> 2
gccgtagtga cagagaaggc acagatgttg gacgagcat 39

<210> 3
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<212> DNA
<213> Mus musculus

<220>
<223> Description of Artificial Sequence: Primer

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<210> 4
<211> 34
<212> DNA
<213> Mus musculus

<220>
<223> Description of Artificial Sequence: Primer

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1000135 030400

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34

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<212> DNA

<213> Mus musculus

<220>

<223> Description of Artificial Sequence: Primer

<400> 5

gcagcatctt caggatgcac ggaagcgagt gcagg

35

<210> 6

<211> 58

<212> DNA

<213> Mus musculus

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58

<210> 7

<211> 17

<212> DNA

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<220>

<223> Description of Artificial Sequence: Primer

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aatccttctg ggaattc

17

<210> 8

<211> 154

<212> PRT

<213> Mus musculus

<400> 8

Met Ala Gln Trp Asn Gln Leu Gln Gln Leu Asp Thr Arg Tyr Leu Lys
1 5 10 15

Gln Leu His Gln Leu Tyr Ser Asp Thr Phe Pro Met Glu Leu Arg Gln
20 25 30

Phe Leu Ala Pro Trp Ile Glu Ser Gln Asp Trp Ala Tyr Ala Ala Ser
35 40 45

Lys Glu Ser His Ala Thr Leu Val Phe His Asn Leu Leu Gly Glu Ile
50 55 60

Asp Gln Gln Tyr Ser Arg Phe Leu Gln Glu Ser Asn Val Leu Tyr Gln
65 70 75 80

His Asn Leu Arg Arg Ile Lys Gln Phe Leu Gln Ser Arg Tyr Leu Glu
85 90 95

Lys Pro Met Glu Ile Ala Arg Ile Val Ala Arg Cys Leu Trp Glu Glu
100 105 110

Lys Ile Lys Val Cys Ile Asp Lys Asp Ser Gly Asp Val Ala Ala
260 265 270

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<210> 10
<211> 393
<212> PRT
<213> Mus musculus
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<400> 10
Leu Arg Gly Ser Arg Lys Phe Asn Ile Leu Gly Thr Asn Thr Lys Val
1 5 10 15

Met Asn Met Glu Glu Ser Asn Asn Gly Ser Leu Ser Ala Glu Phe Lys
20 25 30

His Leu Thr Leu Arg Glu Gln Arg Cys Gly Asn Gly Gly Arg Ala Asn
35 40 45

Cys Asp Ala Ser Leu Ile Val⁺ Thr Glu Glu Leu His Leu Ile Thr Phe
50 55 60

Glu Thr Glu Val Tyr His Gln Gly Leu Lys Ile Asp Leu Glu Thr His
65 70 75 80

Ser Leu Pro Val Val Val Ile Ser Asn Ile Cys Gln Met Pro Asn Ala
85 90 95

Trp Ala Ser Ile Leu Trp Tyr Asn Met Leu Thr Asn Asn Pro Lys Asn
100 105 110

Val Asn Phe Phe Thr Lys Pro Pro Ile Gly Thr Trp Asp Gln Val Ala
115 120 125

Glu Val Leu Ser Trp Gln Phe Ser Ser Thr Thr Lys Arg Gly Leu Ser
130 135 140

Ile Glu Gln Leu Thr Thr Leu Ala Glu Lys Leu Leu Gly Pro Gly Val
145 150 155 160

Asn Tyr Ser Gly Cys Gln Ile Thr Trp Ala Lys Phe Cys Lys Glu Asn
165 170 175

Met Ala Gly Lys Gly Phe Ser Phe Trp Val Trp Leu Asp Asn Ile Ile
180 185 190

Asp Leu Val Lys Lys Tyr Ile Leu Ala Leu Trp Asn Glu Gly Tyr Ile
195 200 205

Met Gly Phe Ile Ser Lys Glu Arg Glu Arg Ala Ile Leu Ser Thr Lys
210 215 220

Pro Pro Gly Thr Phe Leu Leu Arg Phe Ser Glu Ser Ser Lys Glu Gly
225 230 235 240

Gly Val Thr Phe Thr Trp Val Glu Lys Asp Ile Ser Gly Lys Thr Gln
245 250 255

[illegible]

[illegible]

Lys Gly Phe Arg Lys Phe Asn Ile Leu Gly Thr His Thr Lys Val Met
1 5 10 15

Leu Gln Leu Lys Glu Gln Lys Asn Ala Gly Thr Arg Thr Asn Glu Gly
35 40 45

Pro Leu Ile Val Thr Glu Glu Leu His Ser Leu Ser Phe Glu Thr Gln
50 55 60

Leu Cys Gln Pro Gly Leu Val Ile Asp Leu Glu Thr Thr Ser Leu Pro
65 70 75 80

Val Val Val Ile Ser Asn Val Ser Gln Leu Pro Ser Gly Trp Ala Ser
85 90 95

Ile Leu Trp Tyr Asn Met Leu Val Ala Glu Pro Arg Asn Leu Ser Phe
100 105 110

Phe Leu Thr Pro Pro Cys Ala Arg Trp Ala Gln Leu Ser Glu Val Leu
115 120 125

Ser Trp Gln Phe Ser Ser Val Thr Lys Arg Gly Leu Asn Val Asp Gln
130 135 140

Leu Asn Met Leu Gly Glu Lys Leu Leu Gly Pro Asn Ala Ser Pro Asp
145 150 155 160

Gly Leu Ile Pro Trp Thr Arg Phe Cys Lys Glu Asn Ile Asn Asp Lys
165 170 175

Asn Phe Pro Phe Trp Leu Trp Ile Glu Ser Ile Leu Glu Leu Ile Lys
180 185 190

Lys His Leu Leu Pro Leu Trp Asn Asp Gly Cys Ile Met Gly Phe Ile
195 200 205

Ser Lys Glu Arg Glu Arg Ala Leu Leu Lys Asp Gln Gln Pro Gly Thr
210 215 220

Phe Leu Leu Arg Phe Ser Glu Ser Ser Arg Glu Gly Ala Ile Thr Phe
225 230 235 240

Thr Trp Val Glu Arg Ser Gln Asn Gly Gly Glu Pro Asp Phe His Ala
245 250 255

Val Glu Pro Tyr Thr Lys Lys Glu Leu Ser Ala Val Thr Phe Pro Asp
260 265 270

Ile Ile Arg Asn Tyr Lys Val Met Ala Ala Glu Asn Ile Pro Glu Asn
275 280 285

Pro	Leu	Lys	Tyr	Leu	Tyr	Pro	Asn	Ile	Asp	Lys	Asp	His	Ala	Phe	Gly
290						295					300				

Lys Tyr Tyr Ser Arg Pro Lys Glu Ala Pro Glu Pro Met Glu Leu Asp
305 310 315 320

Gly Pro Lys Gly Thr Gly Tyr Ile Lys Thr Glu Leu Ile Ser Val Ser
325 330 335

Glu Val His Pro Ser Arg Leu Gln Thr Thr Asp Asn Leu Leu Pro Met
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Ser Pro Glu Glu Phe Asp Glu Val Ser Arg Ile Val Gly Ser Val Glu
355 360 365

Phe Asp Ser Met Met Asn Thr Val
370 375

<210> 14

<211> 252

<212> PRT

<213> Mus musculus

<400> 14

Arg Cys Leu Trp Glu Glu Ser Arg Leu Leu Gln Thr Ala Ala Thr Ala
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Ala Gln Gln Gly Gly Gln Ala Asn His Pro Thr Ala Ala Val Val Thr
20 25 30

Glu Lys Gln Gln Met Leu Glu Gln His Leu Gln Asp Val Arg Lys Arg
35 40 45

Val Gln Asp Leu Glu Gln Lys Met Lys Val Val Glu Asn Leu Gln Asp
50 55 60

Asp Phe Asp Phe Asn Tyr Lys Thr Leu Lys Ser Gln Gly Asp Met Gln
65 70 75 80

Asp Leu Asn Gly Asn Asn Gln Ser Val Thr Arg Gln Lys Met Gln Gln
85 90 95

Leu Glu Gln Met Leu Thr Ala Leu Asp Gln Met Arg Arg Ser Ile Val
100 105 110

Ser Glu Leu Ala Gly Leu Leu Ser Ala Met Glu Tyr Val Gln Lys Thr
115 120 125

Leu Thr Asp Glu Glu Leu Ala Asp Trp Lys Arg Arg Pro Glu Ile Ala
130 135 140

Cys Ile Gly Gly Pro Pro Asn Ile Cys Leu Asp Arg Leu Glu Asn Trp
145 150 155 160

Ile Thr Ser Leu Ala Glu Ser Gln Leu Gln Thr Arg Gln Gln Ile Lys
165 170 175

Lys Leu Glu Glu Leu Gln Gln Lys Val Ser Tyr Lys Gly Asp Pro Ile
180 185 190

Met His Pro Asp Arg Pro Leu Val Ile Lys Thr Gly
225 230 235

<210> 16
<211> 176
<212> PRT
<213> Mus musculus

<400> 16
Arg Cys Leu Trp Glu Glu Ser Arg Leu Leu Gln Thr Ala Ala Thr Ala
1 5 10 15

Ala Gln Gln Gly Gly Gln Ala Asn His Pro Thr Ala Ala Val Val Thr
20 25 30

Glu Lys Gln Gln Met Leu Glu Gln His Leu Gln Asp Val Arg Lys Arg
35 40 45

Val Gln Asp Leu Glu Gln Lys Met Lys Val Val Glu Asn Leu Gln Asp
50 55 60

Asp Phe Asp Phe Asn Tyr Lys Thr Leu Lys Ser Gln Gly Asp Met Gln
65 70 75 80

Asp Leu Asn Gly Asn Asn Gln Ser Val Thr Arg Gln Lys Met Gln Gln
85 90 95

Leu Glu Gln Met Leu Thr Ala Leu Asp Gln Met Arg Arg Ser Ile Val
100 105 110

Ser Glu Leu Ala Gly Leu Leu Ser Ala Met Glu Tyr Val Gln Lys Thr
115 120 125

Leu Thr Asp Glu Glu Leu Ala Asp Trp Lys Arg Arg Pro Glu Ile Ala
130 135 140

Cys Ile Gly Gly Pro Pro Asn Ile Cys Leu Asp Arg Leu Glu Asn Trp
145 150 155 160

Ile Thr Ser Leu Ala Glu Ser Gln Leu Gln Thr Arg Gln Gln Ile Lys
165 170 175

<210> 17
<211> 143
<212> PRT
<213> Mus musculus

<400> 17
Arg Cys Leu Trp Glu Glu Ser Arg Leu Leu Gln Thr Ala Ala Thr Ala
1 5 10 15

Ala Gln Gln Gly Gly Gln Ala Asn His Pro Thr Ala Ala Val Val Thr
20 25 30

Glu Lys Gln Gln Met Leu Glu Gln His Leu Gln Asp Val Arg Lys Arg

35

40

45

Val Gln Asp Leu Glu Gln Lys Met Lys Val Val Glu Asn Leu Gln Asp
 50 55 60

Asp Phe Asp Phe Asn Tyr Lys Thr Leu Lys Ser Gln Gly Asp Met Gln
 65 70 75 80

Asp Leu Asn Gly Asn Asn Gln Ser Val Thr Arg Gln Lys Met Gln Gln
 85 90 95

Leu Glu Gln Met Leu Thr Ala Leu Asp Gln Met Arg Arg Ser Ile Val
 100 105 110

Ser Glu Leu Ala Gly Leu Leu Ser Ala Met Glu Tyr Val Gln Lys Thr
 115 120 125

Leu Thr Asp Glu Glu Leu Ala Asp Trp Lys Arg Arg Pro Glu Ile
 130 135 140

<210> 18

<211> 229

<212> PRT

<213> Mus musculus

<400> 18

Asn His Pro Thr Ala Ala Val Val Thr Glu Lys Gln Gln Met Leu Glu
 1 5 10 15

Gln His Leu Gln Asp Val Arg Lys Arg Val Gln Asp Leu Glu Gln Lys
 20 25 30

Met Lys Val Val Glu Asn Leu Gln Asp Asp Phe Asp Phe Asn Tyr Lys
 35 40 45

Thr Leu Lys Ser Gln Gly Asp Met Gln Asp Leu Asn Gly Asn Asn Gln
 50 55 60

Ser Val Thr Arg Gln Lys Met Gln Gln Leu Glu Gln Met Leu Thr Ala
 65 70 75 80

Leu Asp Gln Met Arg Arg Ser Ile Val Ser Glu Leu Ala Gly Leu Leu
 85 90 95

Ser Ala Met Glu Tyr Val Gln Lys Thr Leu Thr Asp Glu Glu Leu Ala
 100 105 110

Asp Trp Lys Arg Arg Pro Glu Ile Ala Cys Ile Gly Gly Pro Pro Asn
 115 120 125

Ile Cys Leu Asp Arg Leu Glu Asn Trp Ile Thr Ser Leu Ala Glu Ser
 130 135 140

Gln Leu Gln Thr Arg Gln Gln Ile Lys Lys Leu Glu Glu Leu Gln Gln
 145 150 155 160

Lys Val Ser Tyr Lys Gly Asp Pro Ile Val Gln His Arg Pro Met Leu
 165 170 175

Glu Glu Arg Ile Val Glu Leu Phe Arg Asn Leu Met Lys Ser Ala Phe

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<212> PRT
<213> Mus musculus

<400> 20
Val Gln Asp Leu Glu Gln Lys Met Lys Val Val Glu Asn Leu Gln Asp
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Asp Phe Asp Phe Asn Tyr Lys Thr Leu Lys Ser Gln Gly Asp Met Gln
20 25 30
Asp Leu Asn Gly Asn Asn Gln Ser Val Thr Arg Gln Lys Met Gln Gln
35 40 45
Leu Glu Gln Met Leu Thr Ala Leu Asp Gln Met Arg Arg Ser Ile Val
50 55 60
Ser Glu Leu Ala Gly Leu Leu Ser Ala Met Glu Tyr Val Gln Lys Thr
65 70 75 80
Leu Thr Asp Glu Glu Leu Ala Asp Trp Lys Arg Arg Pro Glu Ile Ala
85 90 95
Cys Ile Gly Gly Pro Pro Asn Ile Cys Leu Asp Arg Leu Glu Asn Trp
100 105 110
Ile Thr Ser Leu Ala Glu Ser Gln Leu Gln Thr Arg Gln Gln Ile Lys
115 120 125

<210> 21
<211> 95
<212> PRT
<213> Mus musculus

<400> 21
Val Gln Asp Leu Glu Gln Lys Met Lys Val Val Glu Asn Leu Gln Asp
1 5 10 15
Asp Phe Asp Phe Asn Tyr Lys Thr Leu Lys Ser Gln Gly Asp Met Gln
20 25 30
Asp Leu Asn Gly Asn Asn Gln Ser Val Thr Arg Gln Lys Met Gln Gln
35 40 45
Leu Glu Gln Met Leu Thr Ala Leu Asp Gln Met Arg Arg Ser Ile Val
50 55 60
Ser Glu Leu Ala Gly Leu Leu Ser Ala Met Glu Tyr Val Gln Lys Thr
65 70 75 80
Leu Thr Asp Glu Glu Leu Ala Asp Trp Lys Arg Arg Pro Glu Ile
85 90 95

<210> 22
<211> 223

<212> PRT
<213> Mus musculus

<400> 22

Val Gln Asp Leu Glu Gln Lys Met Lys Val Val Glu Asn Leu Gln Asp
1 5 10 15
Asp Phe Asp Phe Asn Tyr Lys Thr Leu Lys Ser Gln Gly Asp Met Gln
20 25 30
Asp Leu Asn Gly Asn Asn Gln Ser Val Thr Arg Gln Lys Met Gln Gln
35 40 45
Leu Glu Gln Met Leu Thr Ala Leu Asp Gln Met Arg Arg Ser Ile Val
50 55 60
Ser Glu Leu Ala Gly Leu Leu Ser Ala Met Glu Tyr Val Gln Lys Thr
65 70 75 80
Leu Thr Asp Glu Glu Leu Ala Asp Trp Lys Arg Arg Pro Glu Ile Ala
85 90 95
Cys Ile Gly Gly Pro Pro Asn Ile Cys Leu Asp Arg Leu Glu Asn Trp
100 105 110
Ile Thr Ser Leu Ala Glu Ser Gln Leu Gln Thr Arg Gln Gln Ile Lys
115 120 125
Lys Leu Glu Glu Leu Gln Gln Lys Val Ser Tyr Lys Gly Asp Pro Ile
130 135 140
Val Gln His Arg Pro Met Leu Glu Glu Arg Ile Val Glu Leu Phe Arg
145 150 155 160
Asn Leu Met Lys Ser Ala Phe Val Val Glu Arg Gln Pro Cys Met Pro
165 170 175
Met His Pro Asp Arg Pro Leu Val Ile Lys Thr Gly Val Gln Phe Thr
180 185 190
Thr Lys Val Arg Leu Leu Val Lys Phe Pro Glu Leu Asn Tyr Gln Leu
195 200 205
Lys Ile Lys Val Cys Ile Asp Lys Asp Ser Gly Asp Val Ala Ala
210 215 220

<210> 23
<211> 185
<212> PRT
<213> Mus musculus

<400> 23

Gln Ser Val Thr Arg Gln Lys Met Gln Gln Leu Glu Gln Met Leu Thr
1 5 10 15
Ala Leu Asp Gln Met Arg Arg Ser Ile Val Ser Glu Leu Ala Gly Leu
20 25 30
Leu Ser Ala Met Glu Tyr Val Gln Lys Thr Leu Thr Asp Glu Glu Leu
35 40 45

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<212> PRT
<213> Rattus sp.
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<210> 27
<211> 230
<212> PRT
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<213> Rattus sp.

<400> 27

Asn Val Thr Asp Glu Gln Glu Gly Phe Ala Glu Gly Phe Val Arg Gly
1 5 10 15

Leu Ala Glu Leu His Ser Gln Asn Arg Leu Pro Ser Val Thr Ser Ala
20 25 30

Ala Gln Pro Val Ser Gly Ala Gly Met Val Ala Pro Ala Val Ala Ser
35 40 45

Val Ala Gly Ala Gly Gly Gly Gly Tyr Ser Ala Thr Leu Gln Ser Glu
50 55 60

Pro Pro Val Tyr Ala Asn Leu Ser Asn Phe Asn Pro Gly Ala Leu Ser
65 70 75 80

Thr Gly Gly Gly Ala Pro Ser Tyr Gly Ala Thr Gly Leu Ala Phe Pro
85 90 95

Ser Arg Pro Gln Gln Gln Gln Gln Pro Pro Gln Pro Pro His His Leu
100 105 110

Pro Gln Gln Ile Pro Val Gln His Pro Arg Leu Gln Ala Leu Lys Glu
115 120 125

Glu Pro Gln Thr Val Pro Glu Met Pro Gly Glu Thr Pro Pro Leu Ser
130 135 140

Pro Ile Asp Met Glu Ser Gln Glu Arg Ile Lys Ala Glu Arg Lys Arg
145 150 155 160

Met Arg Asn Arg Ile Ala Ala Ser Lys Cys Arg Lys Arg Lys Leu Glu
165 170 175

Arg Ile Ala Arg Leu Glu Glu Lys Val Lys Thr Phe Lys Ala Gln Asn
180 185 190

Ser Glu Leu Ala Ser Thr Ala Asn Met Leu Arg Glu Gln Val Ala Gln
195 200 205

Leu Lys Gln Lys Val Met Asn His Val Asn Ser Gly Cys Gln Leu Met
210 215 220

Leu Thr Gln Gln Leu Gln
225 230

<210> 28

<211> 229

<212> PRT

<213> Mus musculus

<400> 28

Asn His Pro Thr Ala Ala Val Val Thr Glu Lys Gln Gln Met Leu Glu
1 5 10 15

Gln His Leu Gln Asp Val Arg Lys Arg Val Gln Asp Leu Glu Gln Lys
20 25 30

Met Lys Val Val Glu Asn Leu Gln Asp Asp Phe Asp Phe Asn Tyr Lys
35 40 45

Thr Leu Lys Ser Gln Gly Asp Met Gln Asp Leu Asn Gly Asn Asn Gln
50 55 60

Ser Val Thr Arg Gln Lys Met Gln Gln Leu Glu Gln Met Leu Thr Ala
65 70 75 80

Leu Asp Gln Met Arg Arg Ser Ile Val Ser Glu Leu Ala Gly Leu Leu
85 90 95

Ser Ala Met Glu Tyr Val Gln Lys Thr Leu Thr Asp Glu Glu Leu Ala
100 105 110

Asp Trp Lys Arg Arg Pro Glu Ile Ala Cys Ile Gly Gly Pro Pro Asn
115 120 125

Ile Cys Leu Asp Arg Leu Glu Asn Trp Ile Thr Ser Leu Ala Glu Ser
130 135 140

Gln Leu Gln Thr Arg Gln Gln Ile Lys Lys Leu Glu Glu Leu Gln Gln
145 150 155 160

Lys Val Ser Tyr Lys Gly Asp Pro Ile Val Gln His Arg Pro Met Leu
165 170 175

Glu Glu Arg Ile Val Glu Leu Phe Arg Asn Leu Met Lys Ser Ala Phe
180 185 190

Val Val Glu Arg Gln Pro Cys Met Pro Met His Pro Asp Arg Pro Leu
195 200 205

Val Ile Lys Thr Gly Val Gln Phe Thr Thr Lys Val Arg Leu Leu Val
210 215 220

Lys Phe Pro Glu Leu
225

<210> 29
<211> 229
<212> PRT
<213> Mus musculus

<400> 29
Asn His Pro Thr Ala Ala Val Val Thr Glu Lys Gln Gln Met Leu Glu
1 5 10 15

Gln His Leu Gln Asp Val Arg Lys Arg Val Gln Asp Leu Glu Gln Lys
20 25 30

Met Lys Val Val Glu Asn Leu Gln Asp Asp Phe Asp Phe Asn Tyr Lys
35 40 45

Thr Leu Lys Ser Gln Gly Asp Met Gln Asp Leu Asn Gly Asn Asn Gln
50 55 60

Ser Val Thr Arg Gln Lys Met Gln Gln Leu Glu Gln Met Leu Thr Ala
65 70 75 80

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Leu	Asp	Gln	Met	Arg	Arg	Ser	Ile	Val	Ser	Glu	Leu	Ala	Gly	Leu	Leu	
				85					90					95		
Ser	Ala	Met	Glu	Tyr	Val	Gln	Lys	Thr	Leu	Thr	Asp	Glu	Glu	Leu	Ala	
			100					105					110			
Asp	Trp	Lys	Arg	Arg	Pro	Glu	Ile	Ala	Cys	Ile	Gly	Gly	Pro	Pro	Asn	
		115					120					125				
Ile	Cys	Leu	Asp	Arg	Leu	Glu	Asn	Trp	Ile	Thr	Ser	Leu	Ala	Glu	Ser	
	130					135					140					
Gln	Leu	Gln	Thr	Arg	Gln	Gln	Ile	Lys	Lys	Leu	Glu	Glu	Leu	Gln	Gln	
145					150					155					160	
Lys	Val	Ser	Tyr	Lys	Gly	Asp	Pro	Ile	Val	Gln	His	Arg	Pro	Met	Leu	
				165					170					175		
Glu	Glu	Arg	Ile	Val	Glu	Leu	Phe	Arg	Asn	Leu	Met	Lys	Ser	Ala	Phe	
			180					185					190			
Val	Val	Glu	Arg	Gln	Pro	Cys	Met	Pro	Met	His	Pro	Asp	Arg	Pro	Leu	
		195					200					205				
Val	Ile	Lys	Thr	Gly	Val	Gln	Phe	Ala	Thr	Ala	Val	Ala	Leu	Leu	Val	
	210					215					220					
Lys	Phe	Pro	Glu	Leu												
225																
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<213>	Mus musculus															
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Asn	His	Pro	Thr	Ala	Ala	Val	Val	Thr	Glu	Lys	Gln	Gln	Met	Leu	Glu	
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Gln	His	Ala	Gln	Asp	Val	Arg	Lys	Arg	Val	Gln	Asp	Leu	Glu	Gln	Lys	
			20					25					30			
Met	Lys	Val	Val	Glu	Asn	Leu	Gln	Asp	Asp	Phe	Asp	Phe	Asn	Tyr	Lys	
		35					40					45				
Thr	Leu	Lys	Ser	Gln	Gly	Asp	Met	Gln	Asp	Leu	Asn	Gly	Asn	Asn	Gln	
	50					55					60					
Ser	Val	Thr	Arg	Gln	Lys	Met	Gln	Gln	Leu	Glu	Gln	Met	Leu	Thr	Ala	
	65				70					75					80	
Leu	Asp	Gln	Met	Arg	Arg	Ser	Ile	Val	Ser	Glu	Leu	Ala	Gly	Leu	Leu	
				85					90					95		
Ser	Ala	Met	Glu	Tyr	Val	Gln	Lys	Thr	Leu	Thr	Asp	Glu	Glu	Leu	Ala	
			100					105					110			
Asp	Trp	Lys	Arg	Arg	Pro	Glu	Ile	Ala	Cys	Ile	Gly	Gly	Pro	Pro	Asn	
		115					120					125				

Ile Cys Leu Asp Arg Leu Glu Asn Trp Ile Thr Ser Leu Ala Glu Ser
130 135 140

Gln Leu Gln Thr Arg Gln Gln Ile Lys Lys Leu Glu Glu Leu Gln Gln
145 150 155 160

Lys Val Ser Tyr Lys Gly Asp Pro Ile Val Gln His Arg Pro Met Leu
165 170 175

Glu Glu Arg Ile Val Glu Leu Phe Arg Asn Leu Met Lys Ser Ala Phe
180 185 190

Val Val Glu Arg Gln Pro Cys Met Pro Met His Pro Asp Arg Pro Leu
195 200 205

Val Ile Lys Thr Gly Val Gln Phe Thr Thr Lys Val Arg Leu Leu Val
210 215 220

Lys Phe Pro Glu Leu
225

<210> 31

<211> 229

<212> PRT

<213> Mus musculus

<400> 31

Asn His Pro Thr Ala Ala Val Val Thr Glu Lys Gln Gln Met Leu Glu
1 5 10 15

Gln His Leu Gln Asp Ala Arg Lys Arg Val Gln Asp Leu Glu Gln Lys
20 25 30

Met Lys Val Val Glu Asn Leu Gln Asp Asp Phe Asp Phe Asn Tyr Lys
35 40 45

Thr Leu Lys Ser Gln Gly Asp Met Gln Asp Leu Asn Gly Asn Asn Gln
50 55 60

Ser Val Thr Arg Gln Lys Met Gln Gln Leu Glu Gln Met Leu Thr Ala
65 70 75 80

Leu Asp Gln Met Arg Arg Ser Ile Val Ser Glu Leu Ala Gly Leu Leu
85 90 95

Ser Ala Met Glu Tyr Val Gln Lys Thr Leu Thr Asp Glu Glu Leu Ala
100 105 110

Asp Trp Lys Arg Arg Pro Glu Ile Ala Cys Ile Gly Gly Pro Pro Asn
115 120 125

Ile Cys Leu Asp Arg Leu Glu Asn Trp Ile Thr Ser Leu Ala Glu Ser
130 135 140

Gln Leu Gln Thr Arg Gln Gln Ile Lys Lys Leu Glu Glu Leu Gln Gln
145 150 155 160

Lys Val Ser Tyr Lys Gly Asp Pro Ile Val Gln His Arg Pro Met Leu
165 170 175

10090135 030403

<212> PRT
<213> Homo sapien

<400> 36
Glu Thr Pro Val Glu Ser Gln Gln His Glu Ile Glu Ser Arg Ile Leu
1 5 10 15

Asp Leu Arg Ala Met
20

<210> 37
<211> 13
<212> PRT
<213> Homo sapien

<400> 37
Gly Ser Lys Phe Thr Val Arg Thr Arg Leu Leu Val Arg
1 5 10

<210> 38
<211> 21
<212> PRT
<213> Homo sapien

<400> 38
Ser Ser Ser Val Ser Glu Arg Gln Arg Asn Val Glu His Lys Val Ala
1 5 10 15

Ala Ile Lys Asn Ser
20

<210> 39
<211> 13
<212> PRT
<213> Homo sapien

<400> 39
Leu Ile Gln Phe Thr Val Lys Leu Arg Leu Leu Ile Lys
1 5 10

<210> 40
<211> 21
<212> PRT
<213> Homo sapien

<400> 40
His Leu Gln Ile Asn Gln Thr Phe Glu Glu Leu Arg Leu Val Thr Gln
1 5 10 15

Lys Thr Glu Asn Glu
20

<210> 41
<211> 13
<212> PRT
<213> Homo sapien

<400> 41

Gln Thr Lys Phe Ala Ala Thr Val Arg Leu Leu Val Gly
1 5 10

<210> 42

<211> 20

<212> PRT

<213> Homo sapien

<400> 42

Phe His Asn Lys Gln Glu Glu Leu Lys Phe Lys Thr Gly Leu Arg Arg
1 5 10 15

Leu Gln His Arg
20

<210> 43

<211> 13

<212> PRT

<213> Homo sapien

<400> 43

Gln Thr Lys Phe Gln Ala Gly Val Arg Phe Leu Leu Gly
1 5 10

4050133 030413